

Co-administered drug and dosing regimen	Atorvastatin	Dose (mg)	Ratio of AUC*	Ratio of Cmax*
Clarithromycin 500 mg BID, 9 days	80 mg QD for 4 days	1.54	1.54	1.58
Darunavir 300 mg QD, 9 days	10 mg QD for 4 days	3.45	3.45	2.25
Colchicine 100 mg BID, 9 days	10 mg QD for 4 days	1.54	1.54	1.58
Tricazone 200 mg QD, 14 days	40 mg SD	3.32	3.32	1.20
Fosamprenavir 700 mg BID/ritonavir 100 mg BID, 14 days	10 mg QD for 4 days	2.53	2.53	2.84
Fosamprenavir 1400 mg BID, 14 days	10 mg QD for 4 days	2.30	2.30	4.04
Nelfinavir 1250 mg BID, 14 days	10 mg QD for 28 days	1.74	1.74	2.22
Grapefruit Juice, 240 mL, 14 days	40 mg, SD	1.37	1.37	1.16
Diltiazem 240 mg QD, 28 days	40 mg, SD	1.51	1.51	1.00
Cyflomycin 500 mg QD, 7 days	10 mg, SD	1.33	1.33	1.38
Amidopine 10 mg, single dose	80 mg, SD	1.18	1.18	0.91
Cimetidine 300 mg QD, 2 weeks	10 mg QD for 2 weeks	1.00	1.00	0.89
Colchicine 10 mg BID, 24 weeks	10 mg QD for 8 weeks	NA	NA	0.74**
Maxilo 7C 30 mL QD, 17 days	10 mg QD for 17 days	0.66	0.66	0.67
Elaviron 600 mg QD, 14 days	10 mg for 3 days	0.59	0.59	10.1
Rifampin 600 mg QD, 7 days (co-administered)	40 mg SD	1.12	2.90	
Rifampin 600 mg QD, 5 days (dose separately)	40 mg SD	0.20	0.60	
Gemfibrozil 600 mg BID, 7 days	40 mg SD	1.35	1.00	
Fluconazole 160 mg QD, 7 days	40 mg SD	1.03	1.02	
Boceprevir 800 mg BID, 7 days	40 mg SD	2.32	2.66	

* Represents ratio of treatments (co-administered drug plus atorvastatin versus atorvastatin alone).

** See Sections 5.1 and 7 for clinical significance.

† Greater increases in AUC (ratio of AUC up to 2.5) and/or Cmax (ratio of Cmax up to 1.7) have been reported with excessive grapefruit consumption (> 750 mL - 1.2 liters per day).

†† Ratio based on a single sample taken 8-16 h post dose.

‡ Due to the dual interaction mechanism of rifampin, simultaneous administration of atorvastatin is recommended, as delayed administration of atorvastatin after administration of rifampin has been associated with a significant reduction in atorvastatin plasma concentrations.

§ The dose of saquinavir plus ritonavir in this study is not the clinically used dose. The increase in atorvastatin exposure when used clinically is likely to be higher than what was observed in this study. Therefore, caution should be applied and the lowest dose necessary should be used.

Effects of CADUET on Other Drugs

Amidopine: Amidopine is a weak inhibitor of CYP3A4 and may increase exposure to CYP3A4 substrates.

In vitro data indicate that amidopine has no effect on the human plasma protein binding of digoxin, phenytoin, warfarin, and indomethacin.

Co-administered amidopine does not affect the exposure to atorvastatin, digoxin, ethanol and the plasma protein binding of atorvastatin.

Cyclosporin: A prospective study in renal transplant patients (N=11) showed on an average of 40% increase in trough cyclosporin levels when concomitantly treated with atorvastatin during Drug Interactions (2).

Tacrolimus: A prospective study in healthy Chinese volunteers (N=9) with CYP3A5 expressors showed a 2.5- to 4-fold increase in tacrolimus exposure when concomitantly administered with amidopine compared to tacrolimus alone. This finding was not observed in CYP3A5 non-expressors (N=6). However, a 3-fold increase in plasma exposure to tacrolimus in a renal transplant patient (CYP3A5 non-expressor) was observed when treated for the treatment of post-transplant hypertension resulting in treatment of tacrolimus dose has been reported. Irrespective of the CYP3A5 genotype status, the possibility of interaction cannot be excluded with these drugs [see Drug Interactions (7.2)].

Atorvastatin:

Table 5. Effect of Atorvastatin on the Pharmacokinetics of Co-administered Drug

Atorvastatin	Co-administered drug and dosing regimen	Dose (mg)	Ratio of AUC	Ratio of Cmax
80 mg QD for 15 days	Antipyrine, 600 mg SD	1.03	0.89	
80 mg QD for 10 days	* Digoxin 0.25 mg QD, 20 days	1.15	1.20	
40 mg QD for 22 days	Oral contraceptive QD, 2 months	1.28	1.23	
10 mg, SD	ethinyl estradiol 35 µg	1.19	1.30	
10 mg, SD	ipranavir 500 mg BID/ritonavir 100 mg BID, 7 days	1.08	0.96	
10 mg QD	Fosamprenavir 1400 mg BID, 14 days	0.73	0.82	
10 mg QD	Fosamprenavir 700 mg BID/ritonavir 100 mg BID, 14 days	0.99	0.94	

* See Section 7 for clinical significance.

13. NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Amidopine Data and mice treated with amidopine maleate in the diet for up to two years, at concentrations calculated to provide daily dosage levels of 0.5, 1.25, and 2.5 mg amidopine/kg/day, showed no evidence of a carcinogenic effect of the drug. For the mouse, the highest dose was on a mg/m² basis, similar to the MHRD of 10 mg amidopine/day. For the rat, the highest dose level was on a mg/m² basis, about twice the MHRD.

Mutagenicity studies conducted with amidopine maleate revealed no drug related effects at either the gene or chromosome levels.

There was no effect on the fertility of rats treated orally with amidopine maleate (males for 64 days and females for 14 days) or female rats at doses up to 10 mg amidopine/kg/day (8 times the MHRD of 10 mg/day on a mg/m² basis).

* Based on patient weight of 50 kg.

Atorvastatin In a 2-year carcinogenicity study with atorvastatin calcium in rats at dose levels equivalent to 10, 30, and 100 mg atorvastatin/kg/day, 2 rare tumors were found in muscle in muscle in high-dose females. In one, there was a rhabdomyosarcoma and in another, there was a fibrosarcoma. This dose represents a plasma AUC (0-24) value of approximately 16 times the mean human plasma drug exposure after an 80 mg oral dose.

A 2-year carcinogenicity study with atorvastatin calcium at dose levels equivalent to 100, 200, or 400 mg atorvastatin/kg/day resulted in a significant increase in liver adenomas in high-dose males and liver carcinomas in high-dose females. These findings occurred at plasma AUC (0-24) values of approximately 6 times the mean human plasma drug exposure after an 80 mg oral dose.

In vitro, atorvastatin was mutagenic or clastogenic in the following tests with and without metabolic activation: the Ames test with *Salmonella typhimurium* and *Escherichia coli*, the HGPRT forward mutation assay in Chinese hamster lung cells, and the chromosomal aberration assay in Chinese hamster lung cells. Atorvastatin was negative in the *in vivo* mouse micronucleus test.

In female rats, atorvastatin at doses up to 225 mg/kg (50 times the human exposure) did not cause adverse effects on fertility. Studies in male rats performed at doses up to 175 mg/kg (15 times the human exposure) produced no changes in fertility. There were no changes in the epididymides of 2 of 10 rats treated with atorvastatin calcium at a dose equivalent to 100 mg atorvastatin/kg/day for 3 months (16 times the human AUC at the 80 mg dose). In the epididymides of 2 of 10 rats treated with 100 mg/kg/day and epididymal weight was lower at 100 mg/kg/day. Male rats given the equivalent of 100 mg atorvastatin/kg/day for 1 weeks prior to mating had decreased sperm count, sperm head concentration, and increased abnormal sperm. Atorvastatin caused no adverse effects on semen parameters, or reproductive performance in rats.

Atorvastatin calcium equivalent to 10, 40, or 120 mg atorvastatin/kg/day for two years.

14. CLINICAL STUDIES

14.1 Amidopine for Hypertension

Adult Patients The antihypertensive efficacy of amidopine has been demonstrated in a total of 15 double-blind, placebo-controlled, randomized studies involving 800 patients on amidopine and 538 on placebo. Once daily administration produced statistically significant placebo-corrected reductions in supine and standing blood pressures of 24 hours duration (mean 168 mmHg and 174 mmHg in the standing position and 137 mmHg in the supine position) in patients with mild to moderate hypertension. Maintenance of the blood pressure reduction over the 24-hour effect interval was observed, with little difference in peak and trough effect. Tolerance was not demonstrated in patients studied up to 1 year. The 3-year study in patients with moderate to severe hypertension showed that the reduction in supine and standing blood pressures was dose related within the recommended dosing range. Effects on diastolic pressure were similar in young and older patients. The effect on systolic pressure was greater in older patients, perhaps because of greater baseline systolic pressure. Effects were similar in black patients and in white patients.

Pediatric Patients Two hundred sixty-eight hypertensive patients aged 6 to 17 years were randomized first to amidopine 2.5 or 5 mg once daily for 4 weeks and then randomized again to the same dose or to placebo for another 4 weeks. Patients receiving 2.5 mg or 5 mg at the end of 8 weeks had significantly lower systolic blood pressure than those secondarily randomized to placebo. The magnitude of the treatment effect was not statistically significant in patients with 5 mmHg systolic on the 5 mg dose and 3.3 mmHg systolic on the 2.5 mg dose. Adverse events were similar to those seen in adults.

14.2 Amidopine for Chronic Stable Angina

The effectiveness of 5-10 mg/day of amidopine in exercise-induced angina has been evaluated in 6 placebo-controlled, double-blind clinical trials of up to 8 weeks duration involving 1039 patients (884 on amidopine and 154 on placebo) with chronic stable angina. In 5 of the 8 studies, significant increases in exercise time (bicycle or treadmill) were seen with the 10 mg dose. Increases in symptom-limited exercise time averaged 12.8% (63 sec) for amidopine 10 mg and averaged 7.9% (38 sec) for amidopine 5 mg. Amidopine 10 mg also increased time to 1st ST segment deviation in 5 studies and decreased angina attack rate. The sustained efficacy of amidopine in angina patients has been demonstrated over long-term dosing. In patients with angina, there were no clinically significant reductions in blood pressures (441 mmHg) or changes in heart rate (+0.3 bpm).

14.3 Amidopine for Vasospastic Angina

In a double-blind, placebo-controlled clinical trial of 4 weeks duration and 507 patients, amidopine therapy decreased attacks by approximately 4 weeks compared with a placebo decrease of approximately 17 weeks (p<0.01). Two of 3 amidopine and 4 of 27 placebo patients discontinued the study for lack of clinical improvement.

14.4 Amidopine for Coronary Artery Disease

In a multicenter, double-blind, placebo-controlled study, 2400 patients were randomized to amidopine (5-10 mg once daily) or placebo and followed for 3 years. Although the study did not show significance on the primary objective of change in coronary arterial diameter as assessed by quantitative coronary angiography, the data suggested a favorable outcome with respect to fewer hospitalizations for angina and revascularization procedures in patients with CAD.

CAMELOT enrolled 1318 patients with CAD recently documented by angiography, without left main coronary disease and without heart failure or infection fraction <40%. Patients (76% males, 89% Caucasian, 35% enrolled at U.S. sites, 89% with a history of angina, 52% without PCI, 4% with PCI and no stent, and 44% with a stent) were randomized to double-blind treatment with either amidopine (5-10 mg once daily) or placebo in addition to standard care that included aspirin (89%), statins (83%), beta-blockers (74%), nitroglycerin (50%), antidiabetics (40%), and diuretics (32%). That excluded other calcium channel blockers. The mean duration of follow-up was 19 months. The primary endpoint was the time to first occurrence of one of the following events: hospitalization for angina pectoris, coronary revascularization, myocardial infarction, cardiovascular death, resuscitated cardiac arrest, hospitalization for heart failure, stroke/TIA, or peripheral vascular disease. A total of 110 (16.6%) and 151 (23.1%) first events occurred in the amidopine and placebo groups, respectively, for a hazard ratio of 0.691 (95% CI: 0.540-0.884, p = 0.003). The primary endpoint is summarized in Figure 1 below. The outcome of this study was largely derived from the prevention of hospitalizations for angina and the prevention of revascularization procedures (see Table 6). Effects in various subgroups are shown in Figure 2.

In an angiographic substudy (n=274) conducted within CAMELOT, there was no significant difference between amidopine and placebo on the change of atheroma volume in the coronary artery as assessed by intracoronary ultrasound.

Figure 1. Kaplan-Meier Analysis of Composite Clinical Outcomes for Amidopine versus Placebo

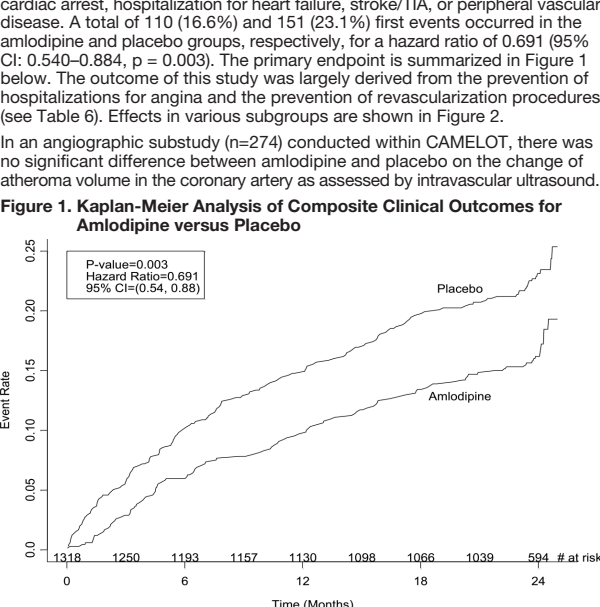


Figure 2. Effects on Primary Endpoint of Amidopine versus Placebo across Sub-Groups

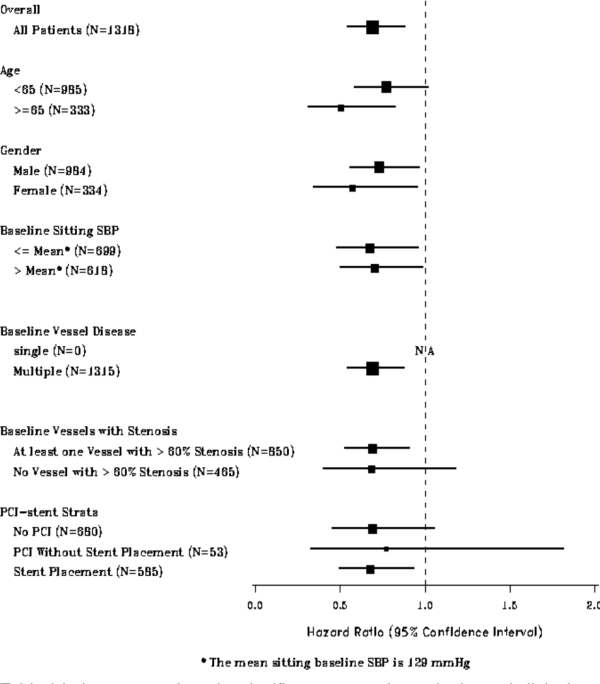


Table 6 below summarizes the significant difference between amidopine and placebo on the change of atheroma volume in the coronary artery as assessed by intracoronary ultrasound.

Table 6. Incidence of Significant Clinical Outcomes for CAMELOT

Clinical Outcomes	Amidopine (N=663)	Placebo (N=655)	Reduction (%)	Risk N (%)
Composite CV Endpoint	110 (16.6)	151 (23.1)	31%	(0.003)
Hospitalization for Angina*	77 (11.6)	103 (15.7)	27%	(0.003)
Coronary Revascularization*	77 (11.6)	103 (15.7)	27%	(0.003)

* All patients with these events.

14.5 Amidopine for Heart Failure

Amidopine has been compared to placebo in four 8-12 week studies of patients with NYHA Class III/IV heart failure, involving a total of 897 patients. In these studies, there was no evidence of worsened heart failure based on measures of exercise tolerance, NYHA classification, symptoms, or left ventricular ejection fraction. In a long-term follow-up at least 6 months, mean 13.8 months) placebo-controlled mortality/morbidity study of amidopine 5-10 mg in 1153 patients with NYHA Class III/IV heart failure, there was no significant difference between amidopine and placebo on the change of atheroma volume in the coronary artery as assessed by intracoronary ultrasound.

For patients on amidopine and 246/583 (42%) for patients on placebo, the primary endpoint was the time to first occurrence of one of the following events: hospitalization for angina pectoris, coronary revascularization, myocardial infarction, cardiovascular death, resuscitated cardiac arrest, hospitalization for heart failure, stroke/TIA, or peripheral vascular disease. A total of 110 (16.6%) and 151 (23.1%) first events occurred in the amidopine and placebo groups, respectively, for a hazard ratio of 0.691 (95% CI: 0.540-0.884, p = 0.003). The primary endpoint is summarized in Figure 1 below. The outcome of this study was largely derived from the prevention of hospitalizations for angina and the prevention of revascularization procedures (see Table 6). Effects in various subgroups are shown in Figure 2.

In an angiographic substudy (n=274) conducted within CAMELOT, there was no significant difference between amidopine and placebo on the change of atheroma volume in the coronary artery as assessed by intracoronary ultrasound.

14.6 Atorvastatin for Prevention of Cardiovascular Disease

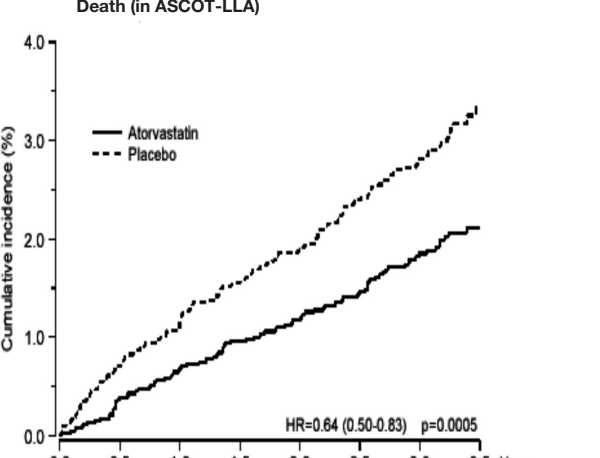
In the Anglo-Scandinavian Cardiac Outcomes Trial (ASCOT), the effect of atorvastatin on fatal and non-fatal coronary heart disease was assessed in 10,260 hypertensive patients (50% male, 50% female) aged 55-75 years without a previous myocardial infarction and with total-cholesterol < 251 mg/dL (6.5 mmol/L). Additionally, all patients had at least 3 of the following cardiovascular risk factors: male gender (51%), age > 55 years (84.5%), smoking (33.2%), diabetes (24.3%), history of CHD in a first-degree relative (20%), TCHD, < 16 (14.3%), peripheral vascular disease (5.1%), left ventricular hypertrophy (14.4%), prior cerebrovascular event (8.8%), specific ECG abnormality (14.3%), proteinuria/albuminuria (62.4%). In this double-blind, placebo-controlled study, patients were randomized to atorvastatin 20 mg or 40 mg once daily for 2 weeks and then to atorvastatin 10 mg or 20 mg once daily for 2 weeks. The primary endpoint was the time to first occurrence of one of the following events: hospitalization for angina pectoris, coronary revascularization, myocardial infarction, cardiovascular death, resuscitated cardiac arrest, hospitalization for heart failure, stroke/TIA, or peripheral vascular disease. A total of 110 (16.6%) and 151 (23.1%) first events occurred in the amidopine and placebo groups, respectively, for a hazard ratio of 0.691 (95% CI: 0.540-0.884, p = 0.003). The primary endpoint is summarized in Figure 1 below. The outcome of this study was largely derived from the prevention of hospitalizations for angina and the prevention of revascularization procedures (see Table 6). Effects in various subgroups are shown in Figure 2.

In an angiographic substudy (n=274) conducted within CAMELOT, there was no significant difference between amidopine and placebo on the change of atheroma volume in the coronary artery as assessed by intracoronary ultrasound.

The effect of 10 mg/day of atorvastatin on lipid levels was similar to that seen in previous clinical trials.

Atorvastatin significantly reduced the rate of coronary events [either fatal coronary heart disease (46 events in the placebo group vs. 40 events in the atorvastatin group) or non-fatal MI (108 events in the placebo group vs. 80 events in the atorvastatin group)] with a relative risk reduction of 36% (95% CI: 23-48) (p<0.0005) (see Figure 3). The risk reduction was consistent regardless of age, gender, or baseline cholesterol level. The effect of atorvastatin on the primary endpoint was seen regardless of baseline LDL levels. Because of the small number of events, results for women were inconclusive.

Figure 3. Effect of Atorvastatin 10 mg/day on Cumulative Incidence of Non-Fatal Myocardial Infarction or Coronary Heart Disease (Death in ASCOT-LLA)



Atorvastatin also significantly decreased the relative risk for revascularization procedures by 42% (incidences of 1.4% for atorvastatin and 2.5% for placebo). Although the reduction of fatal and non-fatal strokes did not reach a pre-defined significance level (p=0.01), a favorable trend was observed with a 26% relative risk reduction (incidences of 1.7% for atorvastatin and 2.3% for placebo). There was no significant difference between the treatment groups for death from cardiovascular causes (p=0.51) or noncardiovascular causes (p=0.17).

In the Collaborative Atorvastatin Diabetes Study (CARDS), the effect of atorvastatin on cardiovascular disease endpoints was assessed in 2838 subjects (84% white, 68% male), ages 40-75 with type 2 diabetes based on WHO criteria, without prior history of cardiovascular disease, and with LDL-C < 160 mg/dL and TG < 500 mg/dL. In addition to diabetes, subjects had 1 or more of the following risk factors: current smoking (23%), hypertension (80%), hypertriglyceridemia (5%), or noncardiovascular causes (23%). Baseline characteristics of subjects were: mean age of 62 years; mean HbA_{1c} 7.7%; median LDL-C 120 mg/dL; median total-C 207 mg/dL; median TG 151 mg/dL; median HDL-C 52 mg/dL.

The effect of atorvastatin 10 mg/day on lipid levels was similar to that seen in previous clinical trials.

Atorvastatin significantly reduced the rate of major cardiovascular events (primary endpoint events) (83 events in the atorvastatin group vs. 127 events in the placebo group) with a relative risk reduction of 57% (HR 0.53, 95% CI (0.48, 0.58) (p<0.001) (see Figure 4). An effect of atorvastatin was seen regardless of age, gender, or baseline cholesterol level.

Atorvastatin significantly reduced the risk of stroke by 48% (21 events in the atorvastatin group vs. 39 events in the placebo group), HR 0.52, 95% CI (0.31, 0.89) (p<0.01) and reduced the risk of MI by 42% (38 events in the atorvastatin group vs. 64 events in the placebo group), HR 0.58, 95% CI (0.38, 0.89) (p<0.007). There was no significant difference between the treatment groups for angina, revascularization procedures, and acute CHD death.

There were 61 deaths in the atorvastatin group vs. 82 deaths in the placebo group (HR 0.73, p=0.059).

Figure 4. Effect of Atorvastatin 10 mg/day on Time to Occurrence of Major Cardiovascular Events (myocardial infarction, acute CHD death, stroke, fatal and non-fatal, revascularization, angina, coronary revascularization, or stroke) in CARDS

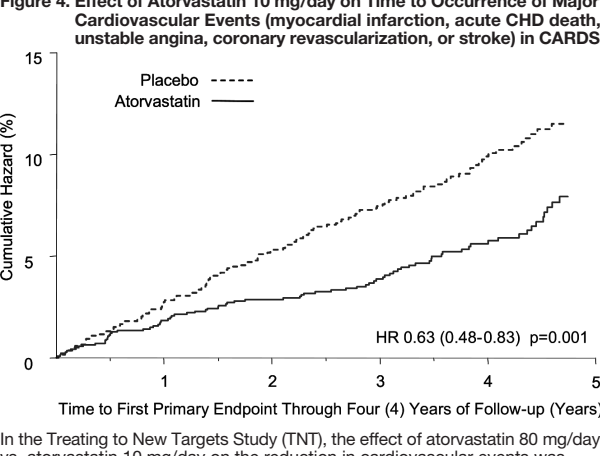


Figure 5. Effect of Atorvastatin 80 mg/day vs. 10 mg/day on Time to Occurrence of Major Cardiovascular Events (NTNT)

In the Treating to New Targets Study (TNT), the effect of atorvastatin 80 mg/day vs. atorvastatin 10 mg/day on the reduction in cardiovascular events was assessed in 10,001 subjects (84% white, 81% male, 38% < 65 years) with primary or secondary prevention of cardiovascular disease. The primary endpoint was the time to first occurrence of any of the following major cardiovascular events: myocardial infarction, stroke, fatal and non-fatal stroke, revascularization, angina, and hospitalization for heart failure, but not peripheral vascular disease. The reduction in the rate of CHF with hospitalization was also observed in the 8% of patients with a prior history of CHF.

There was no significant difference between the treatment groups for all-cause mortality (Table 7). The proportions of subjects with cardiovascular death, including the components of CHD death and fatal stroke, were numerically smaller in the atorvastatin 80 mg group than in the atorvastatin 10 mg treatment group. The proportions of subjects with experienced non-CV death were numerically larger in the atorvastatin 80 mg group than in the atorvastatin 10 mg treatment group.

In the Incidental Dosing Endpoints (IDE) study, atorvastatin 10 mg/day was compared to treatment with simvastatin 20-40 mg/day in 8,888 subjects up to 80 years of age with a history of CHD to assess whether treatment in CV risk could be achieved. Patients were mainly male (81%), white (99%) with an average age of 61.7 years, and an average LDL-C of 171.5 mg/dL at randomization. 76% were on statin therapy. In this prospective, randomized, open-label, blinded endpoint (PROBE) trial with no selection bias, atorvastatin 10 mg/day was compared to treatment with simvastatin 20-40 mg/day for 4.8 years.

There was no significant difference between the treatment groups for the primary endpoint, the rate of first major coronary event (fatal CHD, non-fatal CHD, or stroke), but the rate of first major coronary event was significantly lower in the atorvastatin 10 mg group than in the simvastatin 20-40 mg group (HR 0.89, 95% CI 0.78, 1.01), p=0.07.

There were no significant differences between the treatment groups for all-cause mortality, 366 (8.2%) in the atorvastatin 80 mg/day group vs. 374 (8.4%) in the simvastatin 20-40 mg/day group. The proportions of subjects who experienced CV or non-CV death were similar for the atorvastatin 80 mg group and the simvastatin 20-40 mg group.

14.7 Atorvastatin for Hyperlipidemia and Mixed Dyslipidemia

Atorvastatin reduces total-C, LDL-C, very-low-density lipoprotein cholesterol (VLDL-C), apo B, and TG, and increases HDL-C in patients with hyperlipidemia (heterozygous familial and nonfamilial) and mixed dyslipidemia (Fredrickson Types IIa and IIb). Therapeutic response was seen within 2 weeks, and maximum response is usually achieved within 4 weeks and maintained during chronic therapy.

Atorvastatin is effective in a wide variety of patient populations with hyperlipidemia, with and without hypertriglyceridemia, in men and women, and in the elderly.

In two multicenter, placebo-controlled, dose-response studies in patients with hyperlipidemia, atorvastatin given as a single dose over 6 weeks significantly reduced total-C, LDL-C, apo B, and TG. (Pooled results are provided in Table 8).

Table 8. Dose Response in Patients with Primary Hyperlipidemia (Adjusted Mean % Change From Baseline*)

Treatment (Daily Dose)	N	Total-C	LDL-C	Apo B	TG	HDL-C	Non-HDL-C
Atorvastatin 10 mg	191	-27*	-36*	-28*	-17*	+7	-37*
Atorvastatin 20 mg	191	-37*	-42*	-35*	-24*	+8	-45*
Atorvastatin 40 mg	191	-42*	-47*	-40*	-27*	+9	-50*
Atorvastatin 80 mg	191	-47*	-52*	-45*	-30*	+10	-55*

* A negative value for the 95% CI for the difference between treatments favors atorvastatin for all except HDL-C, for which a positive value favors atorvastatin. If the range does not include 0, this difference is statistically significant difference.

* Significantly different from placebo, ANCOVA, p < 0.05

* Significantly different from atorvastatin, ANCOVA, p < 0.05

The impact on clinical outcomes of the differences in lipid-altering effects between treatments is shown in Table 9. The proportions of subjects with experienced CV or non-CV death were similar for the atorvastatin 80 mg group and the simvastatin 20-40 mg group.

14.8 Atorvastatin for Hypertriglyceridemia

The response to atorvastatin in 64 patients with isolated hypertriglyceridemia (Fredrickson Type IV) treated with atorvastatin 10 mg/day for 4 weeks is shown in the table below (Table 10). The proportions of subjects with experienced CV or non-CV death were similar for the atorvastatin 80 mg group and the simvastatin 20-40 mg group.

Table 10. Combined Patients with Isolated Elevated TG: Median (min, max) Percent Change From Baseline

Treatment	Placebo (N=12)	Atorvastatin 10 mg (N=27)	Atorvastatin 20 mg (N=13)	Atorvastatin 80 mg (N=14)
TG	-12.4	-41.0	-38.7	-51.8
LDL-C	-15.5	-24.4	-24.4	-34.4
HDL-C	3.8	13.8	13.8	13.8
VLDL-C	-18.8	-13.4	-13.4	-13.4
non-HDL-C	-12.4	-41.0	-38.7	-51.8

14.9 Atorvastatin for Dysbetalipoproteinemia

The results of an open-label crossover study of 16 patients (genotypes: 14 apo E2/E2 and 2 apo E3/E2) with dysbetalipoproteinemia (Fredrickson Type III) treated with atorvastatin 10 mg/day for 4 weeks is shown in the table below (Table 10). The proportions of subjects with experienced CV or non-CV death were similar for the atorvastatin 80 mg group and the simvastatin 20-40 mg group.

Table 11. Open-Label Crossover Study of 16 Patients with Dysbetalipoproteinemia (Fredrickson Type III)

Treatment	Placebo (N=12)	Atorvastatin 10 mg (N=27)	Atorvastatin 20 mg (N=13)	Atorvastatin 80 mg (N=14)
TG	-12.4	-41.0	-38.7	-51.8
LDL-C	-15.5	-24.4	-24.4	-34.4
HDL-C	3.8	13.8	13.8	13.8
VLDL-C	-18.8	-13.4	-13.4	-13.4
non-HDL-C	-12.4	-41.0	-38.7	-51.8

14.10 Atorvastatin for Homozygous Familial Hypercholesterolemia

In a study without a concurrent control group, 29 patients ages 6 years to 37 years with HDH received maximum daily doses of 20 to 80 mg of atorvastatin. The mean LDL-C reduction in this study was 19%. Twenty-five patients with a reduction in LDL-C had a mean response of 20% range of 7% to 53%, median of 24%; the remaining 4 patients had 7% to 45% increases in LDL-C. Five of the 29 patients had absent LDL-re